(FILE 'HOME' ENTERED AT 10:44:42 ON 03 JUN 2008) FILE 'CA' ENTERED AT 10:45:23 ON 03 JUN 2008

- 38170 S (DEPROTEI? OR DE PROTEI? OR PROTEIN? (3A) (REMOV? OR PRECIPITAT?))
- 2665 S L1 AND(DRUG OR MEDICIN? OR PHARMACEUTI?) L2
- 363 S L2 AND (MASS SPECTRO? OR MS MS) T.3
- T. 4 46 S L3 AND AUTOMAT?
- L5 21 S L3 AND(AIDS OR HIV OR ANTIRETROVIRAL OR ANTIVIRAL OR RETROVIRAL OR VIRAL)
- L6 23 S L3 AND (GENERAL OR GENERIC)
- T.7 28 S L3 AND(DRY? OR DRIED OR EVAPORAT? OR RECONSTITUT?)
- L8 300 S L1(5A)COMPAR?
- L9 6 S L3 AND L8
- L10 104 S L4-7, L9
- L11 40 S L10 AND PY<2003
- 7 S L10 NOT L11 AND PATENT/DT L12
- FILE 'BIOSIS' ENTERED AT 10:53:18 ON 03 JUN 2008 T.13
- - FILE 'MEDLINE' ENTERED AT 10:53:58 ON 03 JUN 2008
- 37 S T.11 L14
- FILE 'CA, BIOSIS, MEDLINE' ENTERED AT 10:54:52 ON 03 JUN 2008
- 90 DUP REM L11 L12 L13 L14 (49 DUPLICATES REMOVED) L15
- => d bib.ab 115 1-90
- L15 ANSWER 30 OF 90 CA COPYRIGHT 2008 ACS on STN
- AN 135:86474 CA
- TΙ Cassette-accelerated rapid rat screen: a systematic procedure for the dosing and liquid chromatography/atmospheric pressure ionization tandem mass spectrometric analysis of new chemical entities as part of new drug discovery
- AU Korfmacher, Walter A.; Cox, Kathleen A.; Ng, Kwokei J.; Veals, John; Hsieh, Yunsheng; Wainhaus, Sam; Broske, Lisa; Prelusky, Dan; Nomeir, Amin; White, Ronald E.
- Department of Drug Metabolism and Pharmacokinetics, Schering-Plough CS Research Institute, Kenilworth, NJ, 07033, USA
- SO Rapid Communications in Mass Spectrometry (2001), 15(5), 335-340
- This report addresses the continuing need for increased throughput in AB the evaluation of new chem. entities (NCEs) in terms of their pharmacokinetic (PK) parameters by describing an alternative procedure for increasing the throughput of the in vivo screening of NCEs in the oral rat PK model. The new approach is called 'cassette-accelerated rapid rat screen' (CARRS). In this assay, NCEs are dosed individually (n = 2 rats/compd.) in batches of six compds. per set. The assay makes use of a semi-automated protein pptn. procedure for sample prepn. in a 96-well plate format. The liq. chromatog./atm. pressure ionization tandem mass spectrometry (LC/API-MS/MS) assay is also streamlined by analyzing the samples as 'cassettes of six'. Using this new approach, a threefold increase in throughput was achieved over the previously reported 'rapid rat screen'.

- AN 135:352294 CA
- TI Simple and rapid liquid chromatographic-turbo ion spray mass spectrometric determination of topiramate in human plasma
- AU Contin, M.; Riva, R.; Albani, F.; Baruzzi, A.
- CS Laboratory of Clinical Neuropharmacology, University of Bologna, Institute of Neurology, Bologna, 40123, Italy
- SO Journal of Chromatography, B: Biomedical Sciences and Applications (2001), 761(1), 133-137
- AB The authors present a simple and fast method for the detn. of the novel antiepileptic drug topizamate in human plasma by HPLC coupled with turbo ion spray mass spectrometry. Plasma sample pre-treatment was based on simple deproteinization by MeCN. Liq. chromatog. anal. was carried out on a reversed-phase column (C18, 125×4 mm I.D., 5 µm) using MeCN-ammonium acetate buffer, pH 6.3 as the mobile phase, at a flow-rate of 0.8 mL/min. Retention time for topizamate was 2.1 min. The detector

0.8 mL/min. Retention time for topiramate was 2.1 min. The detector was a single quadrupole mass spectrometer coupled to a turbo ion spray ion source and a heated nebulizer probe, operating in the pos. ion mode. Ion source temp. was off; voltage was +5800 V; nebulizer and curtain gas flow-rates were 6 and 10 mL/min, resp. Calibration curves for topiramate were linear over the range 1 to 20 µg/mL. Abs. recovery

ranged between 92 and 95%. Intra- and inter-assay precision was <4%. The present procedure, omitting extn. and drying steps, is faster and simpler than the previously reported anal. methods for topiramate and possesses adequate sensitivity for routine therapeutic drug monitoring in plasma from patients with epilepsy.

- L15 ANSWER 40 OF 90 BIOSIS on STN
- AN 2002:27049 BIOSIS
- TI Liquid chromatography-mass spectrometry assay of a thiadiazole derivative in mice: Application to pharmacokinetic studies.
- AU Wong, Hong; Jia, Lee [Reprint author]; Camden, Jim B.; Weitman, Steve D.
- CS Institute for Drug Development/CTRC, 14960 Omicron Drive, San Antonio, TX, 78245, USA ljia@saci.org
- SO Journal of Chromatography B, (5 December, 2001) Vol. 765, No. 1, 55-62. Modern atmospheric pressure ionization (API) ion-trap mass spectrometry AB in connection with fast chromatographic separations using a short narrow-bore C8 column was developed to determine 5-phenyl-3-thioureido-1,2,4-thiadiazole (301029), a novel virus inhibitor in serum. Both 301029 and an internal standard (I.S.) were separated from serum samples by acetonitrile deproteinization and extraction without time-consuming reconstitution. The chromatographic separation was achieved on a C8 reversed-phase narrow-bore column using acetonitrile-water-acetic acid (90:10:0.01, v/v/v) as a mobile phase. The mass spectrometric analysis was performed by atmospheric pressure chemical ionization (APCI) mode with positive ion detection. Single ion monitoring (SIM) scan mode of m/z 237 and 158 was used to quantitatively determine 301029 and I.S., respectively. The low limit of quantitation was 25 ng/ml. The assay exhibited a linear range of 25-2500 ng/ml. Recovery from serum proved to be 100-113%. The precision (C.V.) and accuracy (RE) of the method were 2-12% and 94-112%, respectively. The present method was applied to determine the pharmacokinetic parameters of 301029 following oral administration of the agent to mice at 5 g/kg. The results revealed

that the elimination half-life of 301029 was 413 min and the area under serum concentration-time curve was 354 mug/ml/min.

- ANSWER 43 OF 90 CA COPYRIGHT 2008 ACS on STN T.15
- AN 132:216478 CA
- TΤ Higher Throughput Bioanalysis by Automation of a Protein Precipitation Assav Using a 96-Well Format with Detection by LC-MS/MS
- Watt, Alan P.; Morrison, Denise; Locker, Karen L.; Evans, David C. AU
- Neuroscience Research Centre, Department of Medicinal Chemistry (Drug CS Metabolism Section), Merck, Sharp and Dohme Research Laboratories, Harlow, Essex, CM20 2QR, UK
- Analytical Chemistry (2000), 72(5), 979-984 SO
- AB Generic methodol. for the automated prepn. and anal. of drug levels in plasma samples within a drug discovery environment was achieved through the redesign of a protein pptn. assay to a microtiter (96-well) plate format and the application of robotic liq. handling for performance of all transfer and pipetting steps. Validation studies revealed that the application of robotics to sample prepn., in general, maintained the anal. accuracy and precision compared with prepg. samples manually. The use of rapid gradient LC-MS/MS for anal. coupled with flow diversion of the solvent front allowed the introduction of protein-pptd. samples into the mass spectrometer without the necessity for source cleaning. The problem inherent in automatically pipetting plasma, caused by fibrinogen clots, was overcome by storing samples at -80 $^{\circ}\mathrm{C}$ and thus precluding clot formation. The resulting methodol. allowed sample prepn. for a 96well plate designed to accommodate 54 unknowns, duplicate 12-point calibration curves, and 6 sets of quality controls at three levels in approx. 2 h. This approach allowed an increase in throughput of sample prepn. and anal. to >400 samples per day per LC-MS/MS instrument with minimal manual intervention. Overall, substantial time savings were realized, demonstrating that automation is an increasingly essential tool in a drug discovery bioanal, environment.

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